



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Michael M. Ramarge et al. Art Unit : 2832
Serial No. : 09/940,539 Examiner : Karl Easthom
Filed : August 29, 2001
Title : MECHANICAL REINFORCEMENT TO IMPROVE HIGH CURRENT, SHORT DURATION WITHSTAND OF A MONOLITHIC DISK OR BONDED DISK STACK

Commissioner for Patents
Washington, D.C. 20231

RESPONSE

In response to the action mailed November 8, 2002, please amend the application as follows:

In the claims:

Please cancel claims 2, 4, and 21.

Please amend claims 1, 5-7, 9, 13, 17, 22-23, and 26 as follows:

--1. An electrical apparatus comprising:

two terminals accessible from an exterior of the electrical apparatus;

an electrical element comprising a monolithic MOV disk having an outer surface and two ends, the ends being in contact with the two terminals, the monolithic MOV having a rating of at least 6 kV; and

a reinforcing structure attached to the outer surface and constructed so as to enable the monolithic MOV to withstand at least one 100 kA impulse, wherein the reinforcing structure comprises a fiber matrix pre-impregnated with a resin, the fiber matrix comprising a pre-woven fabric.

5. The apparatus of claim 1 wherein the fibers in the fiber matrix are oriented in a predetermined orientation with respect to an axis of the electrical element.

6. The apparatus of claim 5 wherein the fibers in the fiber matrix are oriented parallel to the axis.

Adjustment date: 05/28/2003
02/12/2003 DEVANS 00000007 061050 09940539
01 FC:1202 486.00 CR
02 FC:1201 168.00 CR

02/12/2003 DEVANS 00000007 061050 09940539
01 FC:1202 486.00 CH
02 FC:1201 168.00 CH

RECEIVED
FEB 10 2003
TECHNOLOGY CENTER 2800

02/06/2003 NZE/DAE 000000033 09940539

00.00

01.00